### PROJECT DESCRIPTION

GENERAL

This project involves the installation of a temporary traffic control signal with intersection street lighting at the intersection of MD 170 and 1-195 off Ramp in Anne Arundel County.

### INTERSECTION OPERATION

This intersection is proposed to operate in a fully actuated mode with MD 170 northbound and southbound operating concurrently. I- 195 off Ramp will operate in an exclusive phase.

A NEMA (3 phase) fully actuated controller housed in a base mounted cabinet with two- 4 channel rack mounted loop detector amplifiers shall be installed at this location.

#### SPECIAL NOTES

866103

821003

868003

800000

800000

800000

800000

LS

I. The following contact persons for District \*5 are as follows:

Mr. Paul D. Armstrong, District Engineer
Phone: (410) 841-1000
Mr. Lawrence E. Elliott, Assistant District Engineer-Traffic
Phone: (410) 841-1000

Mr. Chuck E. George, Assistant District Engineer-Maintenance Phone: (410) 841-1000

Mr. John S. Mays, Assistant District Engineer-Utility
Phone: (410) 841-1000
Mr. Richard L. Daff, Sr., Chief Traffic Operations Division

A. Equipa	ment to be su	upplied b	y MD-SHA.	
Item No.	Quantity	•	ecification Section	Description
971017	.1	OTT	816	Eight phase (fully actuated) controller and cabinet - base mount
900000	2		817	Four channel rack mounted loop detector amplifier (delay output)
973023	49.5		813	Sheet aluminum signs consisting of:  1 EA R3 - 1 (30" x 30")  3 EA W3 - 3 (36" x 36")  1 EA R3 - 2 (30" x 30")  1 EA R5 - 1 (30" x 30")
B. Equipa	ment to be fu	urnished	and insta	alled by the Contractor.
Item No.	Quantity	•	ecification Section	Description
203030	3	CY	205	Test pit excavation
585445	70	LF	555	Furnish and install 24 in. Temporary white preformed pavement markings
801004	6.0	CY	801	Furnish and install concrete for signal foundation
837001	2	EA	804	Furnish and install ground rod $-3/4$ in. diameter x 10 ft.
800000	20	LF	805	Furnish and install 4 in. schedule 80 rigid PVC conduit — trenched
805118	90	LF	805	Furnish and install 3 in. schedule 80 rigid PVĈ conduit — bored
800000	30	LF	805	Furnish and install 3 in. schedule 80 rigid PVĆ conduit — trenched
800000	830	LF	805	Furnish and install 2 in. schedule 80 rigid PVČ conduit — trenched
800000	60	LF	805	Furnish and install 2 in. schedule 80 rigid PVC conduit — bored
805160	40	LF	805	Furnish and install 1 in. liquid tight flexible non- metallic conduit for detector wire sleeve
831010	1	EΑ	806	Furnish and install 250-watt high pressure sodium lamp and luminaire with photocell (Full Cutoff)
807205	1	EA	807	Furnish and install Control & Distribution Equipment
802501	120	LF	810	Furnish and install No. 6 AWG standard bare copper ground wire
861104	1500	LF	810	Furnish and install electrical cable — 2 conductor (aluminum shielded)
861107	215	LF	810	Furnish and install electrical cable — 5 conductor (No. 14 AWG)
861108	175	LF	810	Furnish and install electrical cable – 7 conductor (No. 14 AWG)
862101	950	LF	810	Furnish and install loop wire encased in flexible tubing (No. 14 AWG)
861116	120	LF	810	Furnish and install 2-conductor – tray cable (No. 12 AWG)
811001	6	EA	811	Furnish and install electrical handhole
801106	60	EA	812	Furnish and install wooden sign support 4" $\times$ 6" drilled
813014	49.5	SF	813	Install ground mounted signs
800000	21	. EA	814	Furnish and install 12 in. standard aluminum traffic signal head section
862102	234	LF	815	Furnish and install sawout for signal
800000	1	EA	818	Furnish and install a 27 ft. steel pole with single 70 ft. mast arm

Furnish and install 20 ft. lighting arm on signal

Furnish and install breakaway base support system

Furnish and install 10 ft. breakaway pedestal pole

Removal and dispose of traffic signal equipment

Removal and salvage of traffic signal equipment

Delivery and salvage of traffic signal equipment

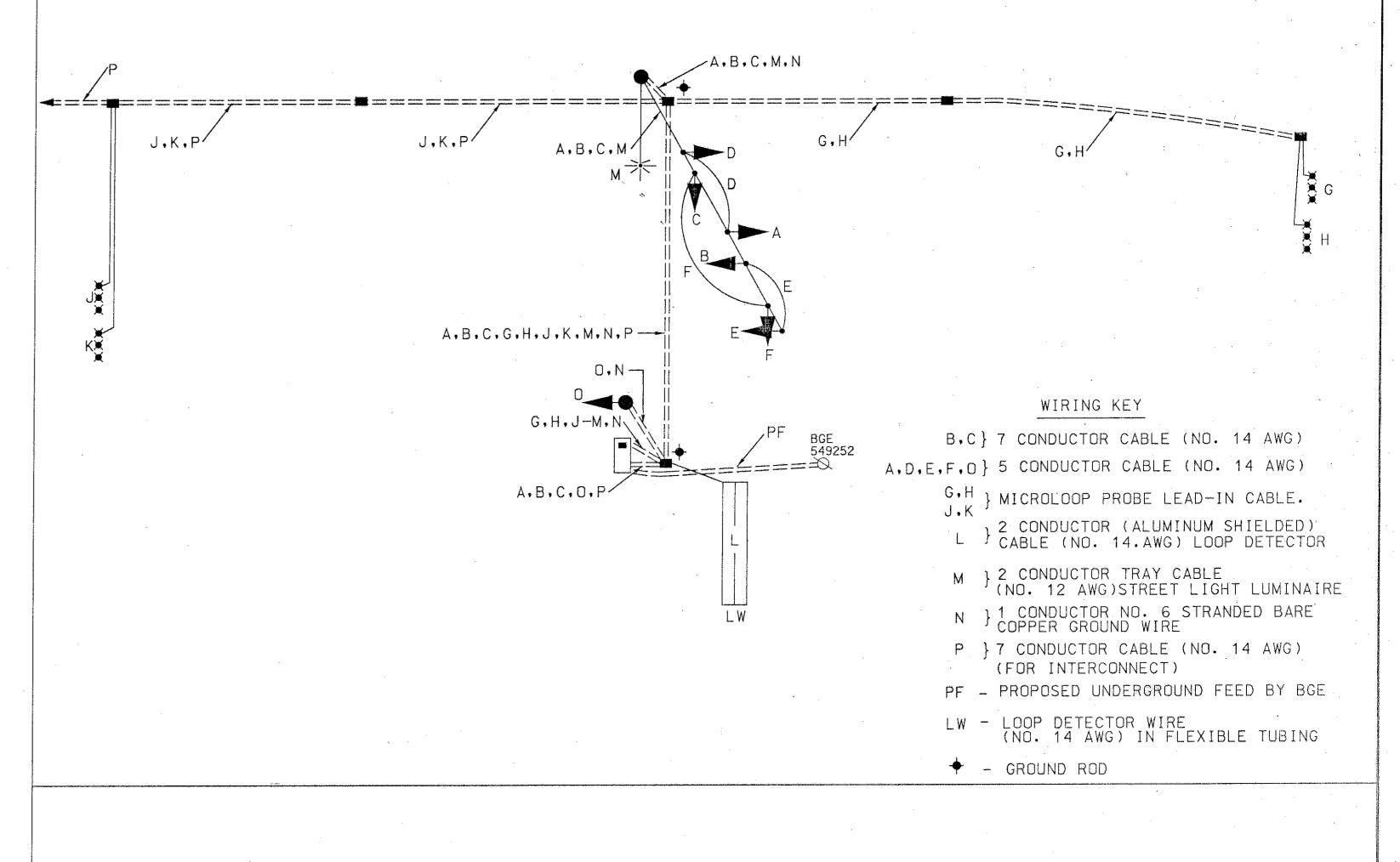
Furnish and install microloop probe set with 500 ft.

structure

for signal structure

lead-in cable.

# WIRING DIAGRAM



# PHASE SEQUENCE CHART

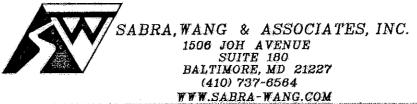
	RYG	R Y G	RYG	RYG	R Y G	R Y G	RYG	
PHASE 2 AND 6	G	G	G	G	G	R	R	<del>-</del>
2 AND 6 CHANGE	Υ.	Υ	Υ	Υ	Y	R	R	
PHASE 4	R	R	R	R	R	Ģ	G	47
4 CHANGE	R	R	R	·R	R	Υ	Υ	
FLASHING OPERATION	FL /Y	FL /Y	FL /Y	FL /Y	FL /Y	FL /R	FL /R	

1 2 3 4 5 6 7

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION GENERAL INFORMATION SHEET

MD 170 AT I-195 SOUTHBOUND OFF RAMP



	DRAWN BY:	JAMES ALLEN Jr.	F.A
	CHECKED BY:	D. PETERS	\$.H
-	SCALE:	*=20 <b>′</b>	COl
	DATE:	MAY 12, 2000	LO

ANNE ARUNDEL DUNTY: LOG MILE: 02017007.57

TS NO. 4033 SHEET NO. T.I.M.S. NO. E 204